

SUMMARY OF SUBCOMMITTEE MEETING

DATE: September 10, 2002
TO: Ross Dunfee, Steering Committee Chairman
Karen Dinicola, Department of Ecology
COPY: Stormwater Manual Subcommittee Members and Consultant Team
FROM: Dave Moss, Tt/KCM
SUBJECT: **Summary of Stormwater Manual Subcommittee Meeting**
Moses Lake Conference Center
September 5, 2002 9:00 am – 2:00 pm
PROJECT: EASTERN WASHINGTON STORMWATER MANAGEMENT
Stormwater Management Technical Manual *and*
Model Municipal NPDES Phase II Stormwater Program

Subcommittee Meeting Attendees:

Jocelyne Gray – JUB Engineers Larry Pearson - CRAB Gary Beeman – WSDOT SCR John Heinley – WSDOT H&LP Gary Nelson – Spokane County Colleen Little – Spokane County Steve Worley – Spokane County Paula Cox – Chelan County Steve King – City of Wenatchee	Nancy Aldrich – City of Richland Steve Hansen – City of Spokane Don Gatchalian – Yakima County Greg Lahti – WSDOT Karen Dinicola – Ecology Steve Plummer – Kennewick Bill Moore – Ecology Dave Moss – TetraTech/KCM
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PURPOSE OF MEETING:

This meeting was held to gather the core subcommittee members and at-large members for:

- Review of Chapters 1, 2, 4, 5 and 6 prior to final production for public review
- Discuss Final Production Schedule
- Discuss support for several upcoming presentations

AGENDA FOR THIS MEETING:

1. Brief review of August 8, 2002 Meeting
2. Review Foreword and Chapter 1 – Introduction
3. Review Chapter 6 – Water Quality Facility Design

4. Review Chapter 5 – Detention, Retention, and Infiltration Design
5. Working lunch (15 minute break)
6. Review Chapter 2 – Core Elements for New Development and Redevelopment
7. Review Chapter 4 – Hydrologic Analysis and Design
8. Review Manual production schedule
9. Discuss support for several upcoming conferences/presentations/exhibits
10. Next meeting: date, time and agenda

BRIEF SUMMARY OF PROCEEDINGS:

1. Subcommittee introductions; sign-in; review agenda.
2. Review and approve summary for August 8, 2002 Manual subcommittee meeting. Colleen Little noted that Steve Hansen was also on the Technical Advisory Working Group (TAG) as noted below for Chapter 4.
3. General discussion regarding introductory sections and manual format:
 - A. An index was suggested for the Feedback boxes.
 - B. Consider an introductory/explanatory statement for the Text boxes; possibly in cover letter or Foreword. Ask the public to provide recommended edits if they disagree with something.
 - C. A few comments regarding the Foreword were discussed.
4. Chapter 1 – Introduction
 - A. Several comments were discussed/incorporated. Reviewed highlights of Spokane County’s comments.
 - B. Stan Ciuba (Ecology) was developing protocol to incorporate “Emerging Technologies” provisions.
 - C. Include the latest version of Figure 1A into Chapter 1.
5. Chapter 6 – Water Quality Facility Design
 - A. Several comments were discussed/incorporated. Reviewed highlights of Spokane County’s comments. Many of their comments had already been incorporated, but still needed review of the few not yet included, and also needed to review all recent edits with Ecology.
 - B. Generally, Spokane County and others said there were no “fatal flaw” issues remaining in Chapter 6.
6. Chapter 5 – Detention, Retention, and Infiltration Design
 - A. Several comments were discussed/incorporated.
 - B. Obtain/include “Total Containment Evaporation Pond” graphic from Colleen Little at Spokane County.
 - C. Regarding Natural Dispersion: in Figure 5.5.1 correct the misspelling of “dispersion.” Also, there are not details on the drain (trench) in the Figure; consider adding additional information/details.
7. Chapter 2 – Core Elements for New Development and Redevelopment
 - A. Several comments were discussed/incorporated. Reviewed highlights of Spokane County’s comments. Karen Dinicola noted Spokane County’s comment #9 (re: time intervals) needed clarification/review.
 - B. Include the latest .pdf or .tif version of Figure 2A into Chapter 2.

- C. There was discussion regarding time steps for hydrologic modeling (which also pertained to Chapter 4). If you are using 5-minute time steps for a 30-minute BMP, then you must use the average of the top six 5-minute values, not the peak 5-minute value; otherwise you may oversize the BMP.
- D. Steve King suggested some rewording be considered to “pair” the methodology with the design storms.
- E. A rewrite of the “hydrologic justification criteria for exempting additional rivers from flow control” in Chapter 2 was to be incorporated later as a separate document, not included in the Manual at this time.

8. Chapter 4 – Hydrologic Analysis and Design

- A. Suggested starting this chapter with a Text box or introduction that noted our intentions to incorporate design storms and analysis methodologies applicable to eastern Washington.
- B. There was considerable discussion regarding Design Storms, Computer Models, and limitations of the SCS analysis method for a traditional 24-hour event, etc. It was agreed to continue with the Technical Advisory Working Group (TAG) for Flow Control Standards/Analysis that was formed at a prior meeting to study design storm options and flow control requirements. TAG members are:
 - Steve King – TAG Chair
 - Karen Dinicola
 - Steve Worley
 - Greg Lahti
 - Steve Plummer
 - Colleen Little
 - Steve Hansen
 - Paula Cox
 - Don Gatchalian
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- C. Consider having Dr. Mike Barber (WSU professor) evaluate the proposed design storm hyetographs and suggest what computer models might best be used to predict runoff.
- D. Delete Appendix 4B regarding preliminary hydrologic modeling results at this time. There is still too much uncertainty in the methods and numbers to publish anything at this time.
- E. Leave in Appendix 4A regarding the development of the design storms by Mel Schaefer.
- F. It was agreed to add the SCS Type IA hyetograph into Chapter 4 along with that for the Type II storm.
- G. Steve Worley said he had plotted the SCS Type II storm on the same graph as the custom Short Duration Thunderstorm and the Long Duration Winter Storm. It was agreed to include this graphic in Chapter 4.

9. Responses to Public Comments

- A. It was questioned whether the responses to public comments would be written in a separate document, or just addressed in the revised document itself? This would need to be evaluated further with Ecology.
 - B. The public comment period was to commence when the documents were distributed in late September 2002 and extend through November 30, 2002. Comments to be sent to Dave Moss by mail/fax/e-mail.
10. Production Schedule: all edits, editing and formatting completed in early September. Convert to .pdf format and submit to Donna Lynch at Ecology on or before September 13, 2002.
11. Next meeting for Manual subcommittee: it was proposed to be in December 2002, but was agreed that was not enough time for comment review. Next meeting was therefore scheduled for January 9, 2003.
12. Next meeting to prepare for the October 2002 public workshops is September 26, 2002 in Moses Lake.

13. Upcoming presentations/workshops/conferences:

- A. CRAB – September 25 – Richland – presentation by Dave Moss
- B. Superschool – October 3 – Spokane – presentation by Steve Worley & Lars Hendron
- C. Public Workshops – October 14/15/16/17 – Spokane/Wenatchee/Yakima/Kennewick – by “Team”
- D. PNCWA (formerly PNPCA) – October 23 – Yakima – presentation by Dave Moss
- E. APWA – October 31 – Spokane – presentation by Karen Dinicola & Steve Worley [There’s also a booth for the EA WA SW program at the conference on October 30th (pm) and all day on October 31st.]
- F. Superschool – November 21 – Tacoma – presentation by John Knutson & Karen Dinicola
- G. Roadbuilders – March 5, 2003 – Coeur d’Alene – *presenter(s) not yet determined.*

PRELIMINARY AGENDA FOR NEXT MEETING:

The **next meeting** will be at the Moses Lake Conference Center on **January 9, 2003**, from 9am to 3:00(?)pm.

The agenda will include:

- Review of Subcommittee agenda and summary from September 5, 2002 meeting.
- Review/discuss summary of 1st round of public review comments received on the Manual
- Discuss recommendations for proceeding with responses to comments and edits to the Manual.
- Discuss latest scope of work for consultant team to assist with the update for the Manual.
- Presentation by TAG to discuss status of design storm issues and related topics.
- Other discussion pertinent to making document ready for second public review.

The following notes are from the flip charts (created at the meeting) from participant comments:

One flip chart was created to highlight the goals and activities for this September 5th meeting:

- Key issues to resolve today will be discussed.
- Assistance with flip charts is requested (*Steve Plummer volunteered*).
- Focus on Major comments in each chapter.
- Will do live edits on the laptop computer for each chapter, and project up on the screen for all to see.
- Key Goal: Resolve all issues so Draft Document for Public Review can be prepared by early September.

Comment: instead of lots of additional flip charts, Dave Moss typed the proposed edits and comments into an electronic version of the chapters being reviewed, and projected them on the wall for the subcommittee to view during the meeting.

A second flip chart was created. It had one item on it:

- How to address exempting water bodies from flow control? (*See Item 7.E. above*)